Index of Claims

| Application/Contro | ı | No. |
|--------------------|---|-----|
|--------------------|---|-----|

10/786,505

Examiner

Ganapathirama Raghu

Applicant(s)/Patent under Reexamination

**GROSS ET AL.** 

Art Unit

1652

| √ | Rejected |
|---|----------|
| = | Allowed  |

(Through numeral) Cancelled Restricted

Non-Elected N Interference

**Appeal** Α 0 Objected

|              | ,        |           | -  |  |              |          |  | ,            |               |               |   |             |          |          |          |          |          |          | ш              |              |          |          |
|--------------|----------|-----------|--|--|--------------|----------|--|--------------|---------------|---------------|---|-------------|----------|----------|----------|----------|----------|----------|----------------|--------------|----------|----------|
| Cla          | im       | Date      |  |  |              |          |  | Cla          | im            |               |   |             |          | ate      | е        |          |          |          |                |              |          |          |
| Final        | Original | 7/22/06   |  |  |              |          |  |              |               |               |   | Final       | Original |          |          |          |          |          |                |              |          |          |
|              | 1        | 1         |  |  |              |          | _  |              | $\overline{}$ |               |   |             | 51       |          | $\neg$   | _        |          |          |                |              | $\Box$   | П        |
|              | 2        | 7         |  |  | _            | _        |  |              | $\vdash$      | $\overline{}$ |   |             | 52       |          | $\neg$   |          |          |          |                |              | П        | П        |
|              | 3        | 0         |  |  |              |          |  |              |               |               |   |             | 53       |          |          |          |          |          | $\Box$         |              |          |          |
|              | 4        | 1         |  |  |              |          |  |              |               |               |   |             | 54       | П        |          |          |          |          |                |              |          |          |
|              | 5        | 1         |  |  |              |          |  |              |               |               |   |             | 55       |          |          |          |          |          |                |              |          |          |
|              | 6        | 0         |  |  |              |          |  |              |               |               |   |             | 56       |          |          |          |          |          |                |              |          |          |
| _            | 7        | 0         |  |  |              | Г        |  |              |               |               |   |             | 57       |          |          |          |          |          |                |              |          | Ш        |
|              | 8        | 0         |  |  |              |          |  |              |               |               |   |             | 58       |          |          |          |          | L        |                |              |          | Ш        |
|              | 9        | 1         |  |  |              |          |  |              |               |               |   |             | 59       |          |          |          |          | L        | L              |              |          | Ш        |
|              | 10       | N         |  |  |              |          |  |              |               |               |   |             | 60       | Ш        |          |          |          |          | Ļ              | L            |          | Ш        |
|              | 11       | N         |  |  |              |          |  | L            |               |               |   |             | 61       |          |          |          |          |          | L              | L            |          | Ш        |
|              | 12       | 2         |  |  |              | _        | L  | _            | <u> </u>      | <u> </u>      |   |             | 62       | Щ        | Щ        |          |          |          | ـ              | <b> </b> _   |          | Щ        |
|              | 13       | N         |  |  |              | L        | L  | $oxed{\Box}$ | _             | _             | 1 |             | 63       | Щ        |          |          |          | $\vdash$ | <del> </del> _ | _            | _        | Н        |
|              | 14       | N         |  |  |              |          | ᆫ  | L            | _             | L             |   |             | 64       |          |          |          |          | <u> </u> | ┡              | _            | _        | Н        |
|              | 15       | N         |  |  | <u> </u>     | <u> </u> | _  | 匚            | <u> </u>      | lacksquare    |   | <u> </u>    | 65       | <u> </u> |          |          | <u> </u> | _        | ⊢              | <u> </u>     | _        | $\vdash$ |
|              | 16       | 1         | <u> </u>   |  | <u>_</u>     | _        | 匚  | _            | 1_            |               | ] |             | 66       | _        |          |          | _        | <u> </u> | ⊢              | _            | <u> </u> | Н        |
|              | 17       | 1         | <u> </u>   | _  | <u> </u>     |          | <u> </u>   | <u> </u>     | ļ             | <u> </u>      |   |             | 67       | _        |          | _        |          | ├-       | ├-             | _            | ⊢        | $\vdash$ |
|              | 18       | <u> -</u> | _  | L  | L            | <u> </u> | L_   | L            | _             | L             |   |             | 68       | _        |          | <u> </u> | ļ        | -        | -              | -            | ├        | $\vdash$ |
| <u></u>      | 19       | <u> -</u> |  | <u>L</u>   | _            | <u> </u> | _  |              | <u> </u>      | _             | Į | <u> </u>    | 69       | _        | _        | _        | ├-       | ⊢        | ├-             | ┡            |          | Н        |
|              | 20       | Ŀ         |  | ╙  | _            | <u> </u> | _  | ┡            | <u> </u>      | ├             | 1 | <u> </u>    | 70       | ⊢        |          | <u> </u> | <u> </u> | -        | ╀              | ├            | ├-       | Н        |
| <u></u>      | 21       | N         | _  | _  |              | ļ        | _  | ļ.,          |               | <u> </u>      | - |             | 71       | -        | _        | -        | ┝        | ⊢        | $\vdash$       | ├—           | ⊢        | $\vdash$ |
| <u></u>      | 22       | N         | <u> </u>   | _  | _            | -        | -  | ⊢            | <del> </del>  | ⊢             | 1 | <u> </u>    | 72<br>73 | -        | ├        |          | ┝        | ┢        | ╁              | ├-           | ├─       | Н        |
| <u> </u>     | 23       | N         | _  | _  | <u> </u>     | ├-       | ⊢  | ├            | ⊢             | ┝             | ┨ |             | 74       | ┢        | ├─       | $\vdash$ |          | $\vdash$ | ╁              | ├-           | ┢        | $\vdash$ |
|              | 24       | N         | -  | -  | ├-           | ╁        | ⊢  | ├            | ┢             | <del> </del>  | ł |             | 75       | ┝        | -        | $\vdash$ | -        | ⊢        | ╫╌             | ╁            | ┢        | $\vdash$ |
|              | 25<br>26 | -         | ⊢  | ⊢  | ├            | ├-       | ├  | ├            | ├             | ├             | 1 | -           | 76       | ┢        | -        |          | -        | ┢        | +              | ╁            | $\vdash$ | $\vdash$ |
|              |          | N         | ┝  | ⊢  | ├            | ┢        | ┢╌   | ├            | $\vdash$      | ┢             | 1 |             | 77       | $\vdash$ | ├─       |          |          | ╁        | ╁╌             | -            | ╁╾       | Н        |
| -            | 27       | ┝         | ├  | ├  | ├            | $\vdash$ | ├  | ┢╌           | ┼             | ╁             | ┨ |             | 78       | ╁        | $\vdash$ | -        |          | ┢╌       | +              | ╁╌           | ┰        | Н        |
| -            | 28<br>29 | ŀ         | ⊢  | ├  | ┢            | ╁╌       | $\vdash$   | ╁╾           | ╁             | H             | 1 |             | 79       | $\vdash$ | -        | -        | -        | $\vdash$ | +              | +-           | 1        | Н        |
| -            | 30       | -         | ├-   | ├─   | ┢╌           | ┼─       | ├  | ╁╾           | -             | $\vdash$      | 1 |             | 80       | $\vdash$ | -        | $\vdash$ | ┢        | $\vdash$ | +-             | 1            | ╁        | Н        |
|              | 31       | -         | ├-   | ╁  | ╁            | ╁        | ┝╌   | ┢            | ╁╾            | ╁╌            | 1 |             | 81       | $\vdash$ |          | $\vdash$ | $\vdash$ | ╁        | 十              | t            | T        | $\vdash$ |
| $\vdash$     | 32       | 1         | $\vdash$   | ├-   | ┪            | ╁╌       | $\vdash$   | ╁            | $\vdash$      | ╁╌            | 1 | <del></del> | 82       | t        | -        | ┢        | $\vdash$ | ✝        | $t^{-}$        | ╁            |          | П        |
| $\vdash$     | 33       | i         | -  | ┢  | $\vdash$     | ╁╌       | ╁  | $\vdash$     | ╁             | ┢             | 1 | _           | 83       | 1        |          | 1        | $\vdash$ | ✝        | T              | T            | $\vdash$ | П        |
|              | 34       | 6         | $\vdash$   | 1  | t            | ╁        | <del>                                     </del> | $\vdash$     | t             | +             | 1 | _           | 84       | 1        | l –      |          |          | T        | Т              |              | $\top$   | П        |
| $\vdash$     | 35       | 0         | †  | 1  | t            | T        | T  | 1            | T             | T             | 1 |             | 85       | T        |          |          | Π        | Π        | $\top$         | 1            | $\Box$   |          |
| <del> </del> | 36       | N         | <del>                                     </del> | <del>                                     </del> | t            | T        | 1  | 1            | $\top$        | T             | 1 |             | 86       | Π        |          |          | Γ        | Π        | Τ              | T            |          |          |
| <u> </u>     | 37       | 1         | ╁╌   | ╁  | +-           | 1        | 1  | T            |               | T             | 1 |             | 87       |          |          |          |          | T        | Т              |              | Т        |          |
| $\vdash$     | 38       | N         | t  | Т  | $\vdash$     | 1        | T  | 1            | 1             |               | 1 |             | 88       |          |          |          |          |          | L              |              | $\Box$   |          |
|              | 39       | N         | T  |  | T            | 1        | Τ  | 1            | 1             | T             | 1 |             | 89       |          |          |          |          |          |                |              |          |          |
| 1            | 40       | 0         | 1  | $\vdash$   | 1            | T        | 1  | Τ            | Т             |               | ] |             | 90       | $L^{T}$  |          |          |          | $\Box$   |                |              |          |          |
|              | 41       | ō         | $\top$   | I  | 1            | 1        | T  | 1            |               | Π             | ] |             | 91       |          |          |          |          | Ĺ        |                |              | $\Box$   |          |
|              | 42       | 0         | T  | Г  | 1            |          | Γ  |              | Γ             |               | ] |             | 92       |          |          |          |          | $\Box$   | Ĺ              |              |          |          |
|              | 43       | 0         |  |  |              |          |  | Γ            |               | L             |   |             | 93       |          |          |          |          | L        | $\perp$        | L            | oxdot    | Ш        |
|              | 44       | 0         |  |  | Γ            |          |  |              |               |               |   |             | 94       | 匚        | Ĺ        | $\Box$   | L        | $\perp$  | $\perp$        | _            | 丰        | Ш        |
|              | 45       | 0         |  |  | $oxed{\Box}$ |          |  |              |               |               | ] |             | 95       |          | 匚        | L        |          | $\perp$  | $\perp$        |              | 1_       | Ш        |
|              | 46       | 0         |  |  |              |          |  |              |               |               | ] |             | 96       |          |          | <u> </u> | <u> </u> | 丄        | Т.             | 1_           | 1        | $\sqcup$ |
|              | 47       | 0         |  |  |              |          |  |              |               |               | _ |             | 97       | 1_       | ┖        | ļ        | L        | $\perp$  | $\perp$        | 丄            | 丄        | Ш        |
|              | 48       | 0         |  |  |              |          |  |              |               |               | 1 |             | 98       | <u> </u> | 1        | <u> </u> | L        | Ļ        | $\perp$        | 1            | ╀        | Щ        |
|              | 49       |           |  |  |              |          |  |              |               | 1_            | 1 |             | 99       | 1        | ـــ      | <u> </u> | $\perp$  | $\perp$  | 4              | <del> </del> | $\perp$  | $\sqcup$ |
|              | 50       |           |  |  |              |          |  |              |               | L             | ╛ | <u>L</u>    | 100      | 1_       |          |          | L        |          | ᆚ_             | _            | Т_       | ┸        |
|              |          |           |  |  |              |          |  |              |               |               | - |             |          |          |          |          |          |          |                |              |          |          |

| -        |                                  | <u> </u> |          | _            |          |          | _        | _                                   | _            | _         |
|----------|----------------------------------|----------|----------|--------------|----------|----------|----------|-------------------------------------|--------------|-----------|
| Final    | Original                         |          |          |              |          |          |          |                                     |              |           |
|          | 51                               |          |          |              |          |          |          |                                     |              |           |
|          | 51<br>52                         | _        | ┝        | <del> </del> | -        | -        |          | _                                   | Н            | Н         |
|          | 52                               | -        | -        | -            |          |          | _        | _                                   | Н            |           |
|          | 53                               | _        |          | _            | <u> </u> | _        |          |                                     |              |           |
|          | 54                               |          | L        |              |          |          | _        | _                                   |              |           |
|          | 54<br>55                         |          |          |              |          |          |          |                                     |              |           |
|          | 56                               |          |          |              |          |          |          |                                     |              |           |
|          | 56<br>57<br>58                   | Г        | Π        |              |          |          |          | Г                                   |              |           |
| _        | 58                               |          |          |              |          | $\Box$   |          | Г                                   |              |           |
|          | 50                               | $\vdash$ | $\vdash$ | ┢            | $\vdash$ | $\vdash$ | _        | $\vdash$                            | $\vdash$     | $\Box$    |
|          | 59<br>60<br>61                   | ⊢        | $\vdash$ | ├            | -        |          | ┝        | $\vdash$                            | -            | Н         |
|          | 00                               | ┢        | ├        |              | $\vdash$ | ├        | ⊢        | ⊢                                   | <del> </del> | -         |
|          | 61                               | ┡        | <b>├</b> | _            | _        |          |          | ┝                                   | <b>-</b>     |           |
|          | 62                               | _        | ㄴ        |              | _        | L_       | _        | L_                                  | <u> </u>     |           |
|          | 62<br>63                         | _        | L        | L            |          | _        |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _            | _         |
|          | 64                               | I        |          |              |          | L        | L        |                                     |              |           |
|          | 65                               | Γ        | Γ        |              |          | Γ        | 1        | l _                                 |              |           |
|          | 66                               | Г        |          | Ī            |          |          | Г        |                                     |              |           |
|          | 67                               | Τ        |          |              | П        | Г        | П        |                                     |              |           |
|          | 68                               | $\vdash$ | 1        |              |          | Г        | Г        |                                     |              |           |
|          | 64<br>65<br>66<br>67<br>68<br>69 | $\Box$   |          |              |          |          |          |                                     |              |           |
|          | 70<br>71                         |          |          |              |          |          |          |                                     |              |           |
|          | 71                               |          |          |              |          |          |          |                                     |              |           |
|          | 72                               | T        | П        |              |          |          |          |                                     |              |           |
|          | 73                               |          |          |              |          |          |          |                                     |              |           |
|          | 74                               |          |          |              |          |          |          |                                     | <u> </u>     | <u> -</u> |
|          | 75                               |          | <u> </u> | L            | <u> </u> | L        | 上        | <u> </u>                            | _            | <u> </u>  |
|          | 72<br>73<br>74<br>75<br>76<br>77 | <u> </u> | 1_       | ╙            |          | _        | ļ_       | <u> </u>                            |              | ├-        |
|          | 77                               | 1        | ╙        | ┡            | _        | ļ.,      | <u> </u> | ┞-                                  | ╄            | ┝         |
|          | 78                               | ┺        | ┡        | _            | _        | <u> </u> | <u> </u> | ├-                                  | ┢            | _         |
|          | 79                               | ╙        | L        | ╙            | L        | _        | <u> </u> | Ļ.                                  | _            |           |
| l        | 80                               | L.       |          |              | L        | L        | <u>L</u> |                                     | <u> </u>     | L         |
|          | 81                               |          |          |              |          | L        |          | 1_                                  |              |           |
|          | 78<br>79<br>80<br>81<br>82       |          |          |              |          |          |          | ļ                                   |              | L         |
|          | 83                               |          |          | 1_           |          | _        |          |                                     | L            |           |
|          | 84<br>85                         |          |          | L            | L        | _        | 1_       | 1_                                  | <u>_</u>     | <u> </u>  |
|          | 85                               |          |          |              | L        | 1        | 1        | $\perp$                             |              | <u>_</u>  |
| L        | 86<br>87                         | 1_       | _        | 1_           | 1        | 上        | <u> </u> | <u> </u>                            | 1            | 1_        |
|          | 87                               | 1_       | _        | 4            |          | 1        | 1        | $\vdash$                            | 1-           | ↓_        |
|          | 88                               | 1        | 1_       | +            |          | $\perp$  | ╀-       | ↓_                                  | ╄-           |           |
|          | 89<br>90                         | ╀        | +-       | ╀-           | ↓_       | $\perp$  | ┼-       | +-                                  | ₩            | -         |
|          | 90                               | 1        | ╀-       | ╀            | ╀-       | ╀        | -        | ┼                                   | +            | ₩         |
| -        | 91                               | +        | +        | +-           | -        | ╀        | ╀        | ╀                                   | +-           | ┯         |
| -        | 92<br>93                         | +        | +        | +            | +        | +-       | 1-       | ╀                                   | ╁            | +-        |
| -        | 94                               | +        | +-       | +            | +        | +        | +        | $\vdash$                            | +            | +         |
| -        | 95                               | ╁        | ┿        | +            | ╀        | +        | ╁        | ╁                                   | ╁            | +         |
| -        | 96                               | +-       | +        | +-           | +        | +        | +-       | +                                   | +-           | +-        |
| $\vdash$ | 97                               | +        | +        | +            | +        | +        | +        | +-                                  | +-           | +         |
|          | 98                               | +-       | +        | +            | $\vdash$ | +        | ✝        | ✝                                   | $\top$       | +         |
| -        | 99                               | +-       | +-       | +-           | $\top$   | 1        | $\top$   | T                                   | +            | T         |
|          | 100                              | +        | +        | 1            | +        | +        | T        | 1                                   | $\top$       | †         |

| Cla          | aim   |              |                |                                     |          | Date         |              |              |  |              |
|--------------|---|--------------|----------------|-------------------------------------|----------|--------------|--------------|--------------|--|--------------|
| Final        | Original                                      |              |                |                                     |          |              |              |              |  |              |
|              | 101   |              |                |                                     |          |              |              |              |  |              |
|              | 102   |              |                |                                     |          |              |              |              |  |              |
|              | 103   |              |                |                                     | <u>_</u> | _            |              |              |  |              |
|              | 104<br>105                                    |              |                |                                     | _        | <u> </u>     |              |              | _  |              |
|              | 105   |              |                | _                                   | _        | <u> </u>     |              | _            | -1   |              |
|              | 106   |              | _              |                                     | _        | <del> </del> | Н            |              | $\dashv$   | -            |
|              | 107<br>108                                    |              |                |                                     | -        |              | -            | _            |  | $\dashv$     |
|              | 109   | $\vdash$     |                | _                                   |          | -            | $\vdash$     | $\vdash$     | $\dashv$   | $\dashv$     |
|              | 110   | -            | _              | -                                   |          | ├            | _            |              | Н  | ᅥ            |
|              | 111   |              | _              | -                                   | -        | $\vdash$     | $\vdash$     |              |  |              |
| -            | 112   |              |                |                                     |          |              | т            |              | $\Box$   | $\dashv$     |
|              | 113   |              |                | Г                                   | $\vdash$ |              | П            | Г            |  | $\neg$       |
|              | 110<br>111<br>112<br>113<br>114<br>115<br>116 |              |                |                                     |          |              |              |              |  |              |
|              | 115   |              |                |                                     |          |              |              |              |  |              |
|              | 116   |              |                |                                     |          |              |              |              |  |              |
|              | 117   |              |                |                                     |          |              |              | L            |  |              |
|              | 118<br>119                                    |              |                |                                     |          |              |              | L            |  |              |
|              | 119   |              |                | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          | _            |              |              |  |              |
|              | 120   | _            |                | <u>Ļ</u> .                          | <u> </u> | _            | <u> </u>     | _            | _  |              |
|              | 121   | _            |                | <u> </u>                            | <u> </u> | H            | ╄            | <u> </u>     | L  |              |
|              | 121   |              | _              | <b> </b> -                          | ├        | -            | ₩            | ├-           |  | _            |
|              | 123<br>124<br>125                             | -            | -              | ├—                                  | -        | ╁            | ┝            | ├—           |  | -            |
|              | 124   | }_           | -              | 1                                   |          | ╁            |              | ├            | ├  | Н            |
|              | 125   | <del> </del> | $\vdash$       | ┢                                   | }_       | ╁╌           | +            | ┝            | -  | $\vdash$     |
|              | 127   | ╁            | -              | ┢                                   | -        | -            | ╁            | ┞            | -  | Н            |
|              | 126<br>127<br>128<br>129<br>130<br>131        | ╁            | <del> </del>   | $\vdash$                            | $\vdash$ | $\vdash$     | +            |              | <u> </u>   | Н            |
|              | 129   | $\vdash$     | -              | $\vdash$                            | ├~       | $\top$       |              | <del> </del> | 1  | П            |
|              | 130   | t            | _              |                                     | 1        | $\top$       | T            | 1            |  |              |
|              | 131   | $\vdash$     |                | T                                   | T        |              |              |              |  |              |
|              | 132   |              |                | Γ                                   | T        |              | Т            |              |  |              |
|              | 132<br>133                                    |              |                |                                     |          |              |              |              |  |              |
|              | 134<br>135                                    |              |                |                                     |          |              |              |              |  |              |
|              | 135   | 匚            | Ĺ              | L                                   |          | 1            | <u> </u>     | 1_           | 1_   | _            |
|              | 136   | <u>L</u>     | L              | L                                   | _        | <u> </u>     | ↓_           | <u> </u>     | <u>_</u>   |              |
|              | 137<br>138                                    | ــــ         | L              | _                                   | 1        | 1            | ↓_           | ┞            | $\vdash$   | _            |
|              | 138   | <del> </del> | _              | <u> </u>                            | _        | 1            |              | -            | 1-   | $\vdash$     |
| <u> </u>     | 139   | <del> </del> | $\vdash$       |                                     | $\vdash$ | ╀            | $\vdash$     | ╀            | ├-   | H            |
|              | 140   | +-           | $\vdash$       | $\vdash$                            | ╀        | +            | ╁            | ┼            | +-   | $\vdash$     |
|              | 141   |              | ├              | $\vdash$                            | ╁        | ╁            | +-           | +            | ┢  | ⊢            |
| <u> </u>     | 142<br>143                                    | $\vdash$     | ├              | ╁                                   | +        | +            | +            | ╀╌           | +-   | <del> </del> |
|              | 144   | 1            | ├              | +                                   | ╁        | ╁            | ┰            | +-           | +-   | $\vdash$     |
| <del> </del> | 145   | $\vdash$     | +              | ╁                                   | ╁╴       | +            | ╁            | $\vdash$     | +-   | ╁            |
|              | 146   | +            | $\vdash$       | 十                                   | t        | +-           | +            | ╁            | +  | $\vdash$     |
|              | 147   | $\top$       | 1              | T                                   | 十        | $\top$       | $\dagger$    | T            | <del>                                     </del> | T            |
|              | 148   | †            | <del>  -</del> | T                                   | T        | $\top$       | 1            | T            | 1  | 1            |
|              | 149   | $\top$       |                | T                                   | T        |              |              | $\Box$       |  |              |
|              | 150   | T            | Γ              | Π                                   | Γ        | Ι            | $\mathbf{I}$ | $\perp$      | L  |              |
|              |   |              |                | •                                   | •        |              | •            | •            |  |              |